

(57) Abstract

A mechanism for synchronizing transmission of frames in a telecommunications network comprising a mobile station (MS), a radio network controller (SRNC), at least one base station (BS1, BS2). The mobile station (MS) and each base station (BS1, BS2) have a corresponding timing reference (MSFN, BS1FN, BS2FN). The mechanism comprises or performs the steps of 1) establishing a connection-specific timing reference (CFN) which is common to all nodes (MS, BS1, BS2, RNC) involved in the connection; 2) determining, for the base stations (BS1, BS2) an offset (OFS) between the timing reference of the base station in question and the CFN; and 3) using the offset (OFS) in the base stations (BS1, BS2), to compensate for the difference between the timing references.

(Fig. 2B)